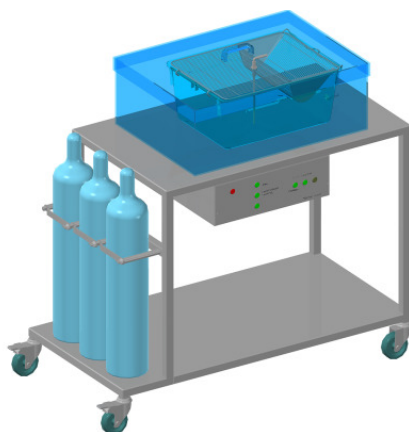




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## Euthanasia Unit



### Eigenschappen

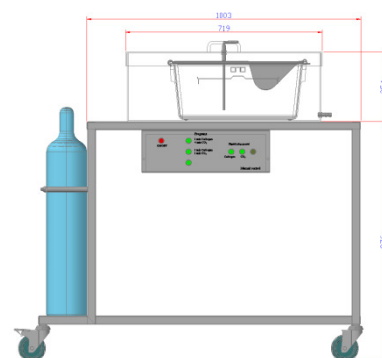
During euthanasia of rodents using the UNO Euthanasia Unit, the following benefits are achieved:

- The animals can stay in their cage, because the UNO Euthanasia Unit includes a transparent polycarbonate "container", in which the complete rat- or mousecage can be placed.
- First, Carbogen gas is introduced at the bottom of the cage, by means of a PLC controlled valve. Carbogen is a gas mixture of 95% O<sub>2</sub> + 5% CO<sub>2</sub>. This causes a high concentration O<sub>2</sub> in the cage and in the container, while the 5%-concentration CO<sub>2</sub> does not cause any reaction at the CO<sub>2</sub> receptors in the animal lungs. The pO<sub>2</sub> level in the blood becomes maximal.
- After 1 min. the Carbogen flow is stopped and 100% CO<sub>2</sub> is introduced into the cage. In this way the high concentration O<sub>2</sub> is slowly replaced by CO<sub>2</sub>. This relatively slow replacement of O<sub>2</sub> by CO<sub>2</sub> is responsible for the reduction of stress for the animal.

If mice and rats are being exposed directly to 100% CO<sub>2</sub>, the stress level, measured according to EEG, EKG and proportionally, is very high. The article "Carbon Dioxide euthanasia in rats;....." handles about the 3 above mentioned criteria in detail. This article can be downloaded on our website: <http://www.unobv.com/afbeeldingen/Carbon%20Dioxide%20in%20rats.pdf>

### The UNO Euthanasia Unit Encludes

- A polycarbonate box with lid, in which the mice and rat cages can be placed  
Dimensions: 50 x 75 x 25cm (lxbxh) (other dimensions customs made available!)
- Tube for the gas supply. This tube can be put between the bars of the wirelids into the cage
- A valve in the macrolon box to connect the unit to an exhaust system
- The s.s. trolley has a tray on which the gas cylinders can be placed
- A switchboard for the supply of the gas (mixture) O<sub>2</sub> and CO<sub>2</sub>, according to a PLC pre-set program



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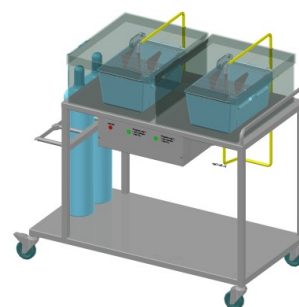
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One of the advantages of the mentioned PLC pre-set programs is that the procedures for euthanasia in rats and mice can be easily described in a protocol for the users of the unit. The UNO Euthanasia Unit contains a program that uses 2 different gases in order to, during euthanasing mice and rats, reduce the animal's stress to a minimum.

## Custommade Options

Different configurations and set-ups for euthanasia units are available on special request.

1. A Euthanasia Unit with two separate euthanasia boxes that can each hold a cage. This unit was equipped with two separate controls with each just one program. Also a safety to prevent unauthorized changes made in the flowmeter settings was integrated.
2. A Euthanasia Unit to be placed on a table without the trolley is also possible.
3. Euthanasia cabinets in different configurations. For ordering information, please contact us.



## Bestelnummer

|           |                          |
|-----------|--------------------------|
| 180000100 | Euthanasia Unit complete |
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